

ZAKGEYM, L. N.

AUTHOR
TITLE

Zakgeym, L.N.

57-8-20/36

Calculation of the Flat Anode of the Tantalum Porous
Electrolytic Capacitor.
(Raschet ploskogo anoda tantalovogo ob'yemno-poristogo
elektroliticheskogo kondensatora.)

PERIODICAL

Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 8, pp. 1794-1802
(USSR)

ABSTRACT

The author tries to give an approximate quantitative calculation of two kinds of flat porous anodes which are of practical importance. The thickness of these anodes is small compared with their width. The anodes consist of equal grains between which there is an electric contact. Two anode constructions are investigated and described. The author shows that every size of grain is attributed a sintering temperature at which the structure corresponding to the assumptions made develops. If the sintering temperature surmounts the optimum temperature of the grains of the given size greater grain formations develop and the capacity calculated is not realized. As tantalum anodes make possible formation in very many electrolytes, working electrolytes with a small specific resistance can be taken instead of tantalum electrolytic capacitors even in the case of low temperatures. The analysis of a porous tantalum

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Electrolytic Capacitor.

anode is carried out which was formed at a voltage of 10 Volt and a grain radius of $r = 40 \cdot 10^{-4}$ cm. The value of $R(\omega)C$ at a frequency of $f = 1000$ Hz and at -60°C in a case where sulphuric acid with $\rho_{-60^\circ} = 30$ Ohms was used as

electrolyte is calculated. The author shows that it is most useful to use possibly smallgrained powders for the pressing of anodes, the decrease of the grain measurements being limited by the necessity to coke anodes at sufficiently high temperature. The analysis shows that the condenser anode must be constructed in such a way that the condition

$$\frac{R^2 \omega^2 C^2 n^2}{4} \ll 1 \quad \text{is fulfilled in the temperature- and}$$

frequency range. n is the number if granular layers in the anode, ω is the cyclic frequency, R is the electrolyte resistance between two neighbouring granular layers.
(With 6 illustrations and 2 Slavic references)

ASSOCIATION: None Given.

AVAILABLE: Library of Congress.

CARD 2/2

GAL'PERIN, Boris Solomonovich; ZAKHAROV, L.N., red.; SCHOLEVA, Ye.M., tekhn.
red.

[Not-wirewound resistors] Neprovolochnya soprotivlenija. Moskva,
(MIRA 11:9)
Gos. energ. izd-vo, 1958. 224 p.
(Electric resistors)

ZAKGEYN, L. N.

107-58-3-39/41

AUTHOR: Breydo, I.

TITLE: A Useful Beginning (Poleznoye nachinaniye)

PERIODICAL: Radio, 1958, Nr 3, p 63 (USSR)

ABSTRACT: Recently a series of lectures was held in Leningrad on small-size radio parts. The lectures were organized by NTORiE imeni A.S. Popov. The lectures dealt with materials for producing small-size receivers, capacitors, resistors, transformers, induction coils, printed circuits and technological questions. Some of the most interesting lectures were: "Physics and Technology of Electrotechnical Materials Used in the Manufacture of Radios" by N. Bugoroditskiy; "Capacitors Made of Paper and Tape" by L. Zakgeyn; "Non-wire Resistors" by B. Gal'perin; "Magnetic Materials" by V. Mes'kin. In the reports it was pointed out that there is a tendency to reduce the dimensions of the radio parts. Tantalum capacitors were listed as example for the effort made in this direction. However, there are certain obstacles

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cles in the development of new, small-size parts. Frequently, such parts are not manufactured immediately after their development is completed, because there are no orders from the consumers who do not know that these parts have been developed. Therefore it is necessary to publish information on new developments in periodicals on electronics, radio engineering, etc.

1. Radio equipment--Miniatureization

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"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510011-4

RENN, Vladimir Tikhonovich; ZAKGEM, L.M., rezaenzent; KAZARNOVSKIY,
D.M., red.; ZABRODINA, A.A., tekhn.red.

[Electric capacitors] Elektricheskie kondensatory. Iзд.2., perer.
Moskva, Gos.energ.izd-vo, 1959. 602 p. (MIA 13:1)
(Electric capacitors)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510011-4"

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9.4300

24928

S/181/61/003/006/025/031
B102/B214

X

AUTHORS: Belova, A. P., Gorskaya, L. G., and Zakgeym, I. N.

TITLE: The electric properties of thin oxide layers on aluminum,
tantalum, and zirconium

PERIODICAL: Fizika tverdogo tela, v. 3, no. 6, 1961, 1851 - 1858

TEXT: Rectifying metals with thin oxide layers in electrolytic cells have lately been investigated many times, partly because such oxide coated metals are finding more and more applications in radio engineering (e. g. construction of condensers), and partly because they exhibit interesting and often anomalous physical properties. The valve action and the asymmetry of the electric conduction have been investigated before for many systems including those in which an oxide semiconductor was used as the second electrode. The valve action has also been investigated repeatedly and different authors have made different assumptions about its origin, most of them assuming the appearance of a p - n junction. To learn more exactly the rectification mechanism and the asymmetry of the electric conduction the authors developed a new method for measuring the

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electrical characteristics of thin oxide layers on valve metals in cells where the second electrode is a metal. The subject to such investigations is the design of electrolyte - free condensors of small size having high capacities at low working voltages, a fine oxide layer serving as the dielectric. However, there are many difficulties in realizing this project. The method of the authors is the following: A foil of the valve metal is oxidized in an electrolytic cell; a plate of 6.5x6.5 mm is cut out and pasted on a ceramic plate having two silver grooves. The contact between the oxidized metal and a silver groove is accomplished by means of a conducting silver varnish. The second metal coating is a thin metal layer (e. g. Al) sputtered on to the oxide layer in vacuo. It is important to insulate the sputtered metal coating from the valve metal on the ceramic plate, which is accomplished by means of a "bridge" of insulating resin (see Fig. 1). Samples with oxide layers of Al_2O_3 , Ta_2O_5 , and ZrO_2 were prepared according to this method, the second electrode being Al in all cases. The temperature dependence of the capacity and of the loss angle at 1000 cps were measured for such samples. The capacity increases linearly with temperature for all the three oxides. The temperature

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coefficient of the capacity for Ta_2O_5 was $250 \cdot 10^{-6} \text{ deg}^{-1}$ which agrees with the result of Sloan and Berry; the value for Al_2O_3 was $440 \cdot 10^{-6} \text{ deg}^{-1}$, and for ZrO_2 $310 \cdot 10^{-6} \text{ deg}^{-1}$. $\tan \delta$ for all the oxides at 20°C was $5 \cdot 10 \cdot 10$, and increased exponentially with temperature. The $I(t)$ -diagram shows that the leakage current in the blocking (transmitting) direction decreased (increased) rapidly and after this remained independent of or slightly dependent on time. Fig. 3 shows for all the three samples the dependence of resistivity on the field strength, $\ln \rho = f(E)$; Fig. 4 shows $\ln \rho = f(1/T)$, where T is the absolute temperature. The table gives the resistivity values for $E = 50 \text{ kv/mm}$ of the oxide layers (1) in the blocking (A) and the transmitting (B) direction. The results obtained justify the assumption made by the authors that a p-i-n or ap-n junction is formed in the oxide layer or on the oxide - metal interface. Further studies in an electrolytic cell showed that there existed in fact a p-i-n junction with a thin p-type semiconducting layer on the side of the electrolyte and a thin n-type semiconducting layer on the side of the metal. These two layers are separated by the i-layer of the metal oxide which shows regular stoichiometric composition. Problems of the recti-

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fication mechanism are finally discussed. B. M. Tareyev and M. M. Lerner are mentioned. There are 5 figures, 1 table, and 14 references: 2 Soviet-bloc and 10 non-Soviet-bloc. The most important references to English-language publications read as follows: R. J. Taylor, H. E. Haring, Journ. of Electrochem. Soc., 103, 11, 611, 1956; 99, 1, 30, 1952; J. Sasaki, Phys. a. Chem. of Sol., 13, 3/4, 177, 1960; D. Sloan, R. Berry, Proc. IRE, 47, 6, 1070, 1959.

SUBMITTED: December 26, 1960 (initially),
January 24, 1961 (after revision)

Окислительный способ ④	K°C		1K°C	
	высокотемп. изогревательно е изогревательно	примедленн е изогревательно	высокотемп. изогревательно	изогревательно е изогревательно
	A	B	A	B
Ta ₂ O ₅ . .	5 · 10 ¹³	1 · 10 ¹³	2 · 10 ¹⁴	7 · 10 ¹³
ZrO ₃ . .	7 · 10 ¹⁴	5 · 10 ¹⁴	1 · 10 ¹⁴	5 · 10 ¹²
Al ₂ O ₃ . .	7 · 10 ¹⁴	1 · 10 ¹⁴	6 · 10 ¹⁴	1 · 10 ¹²

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TOROSHCHIN, Pavel Alekseyevich; ZAKGEYM, L.N., retsenzent; REINER,
V.T., doktor tekhn. nauk, prof., nauchn. red.; RASKINA,
T.D., red.

[Metallized paper capacitors] Metallobumazhnye kondensatory.
Moskva, Energiia, 1965. 212 p. (MIRA 13:5)

ZAKGEYM, Lev Nakhmanovich; RENNE, V.T., ratsenzent; KAZARNOVSKIY,
D.M., red.; ZHINNIKOVA, O.S., tekhn. red.

[Electrolytic condensers] Elektropoliticheskie kondensatory.
Izd.2., perer. i. dop. Moskva, Gossenergoizdat, 1963. 283 p.
(MIRA 16:7)
(Condensers (Electricity))

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510011-4

RENN, Vladimir Tikhonovich; ZAKGEYM, L.N., ratsenget; KAZARNOVSKIY, D.M.,
red.; SOBOLEVA, Ye.M., tekhn. red.

[Thin film capacitors with synthetic organic dielectrics] Plenoch-
nye kondensatory s organicheskim sinteticheskim dielektrikom.
Moskva, Gosgortekhizdat, 1963. 201 p. (MIRA 1:6)
(Condensers (Electricity))

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510011-4"

BELOVA, A.P.; GORSKAYA, L.G.; ZAKGEYM, I.N.

Electric properties of this oxide layers on aluminum, tantalum and
zirconium. Fiz. tver. tela 3 no.6:1851-1858 Je '61. (MIRA 14:?)
(Metallic oxides--Electric properties)

GRACHEVA, G.M.; ZANGEYM, L.N.; SAFONOV, V.P.

Electrolytic capacitors for pulse lighting equipment. Usp.nauch.
fot. 6:72-74 '59. (MIRA 13:6)
(Electric discharge lighting)
(Electric capacitors)

GUBINA, A.A.; ZAKGEYM, Ye.N.; ZUSMANOVICH, V.M.; IVANOV, K.N.; LISITSYN, S.N.; MUZGOV, A.Ya.; PAVLOV, A.S.; PISKORSKIT, B.N. [deceased]; USHOMIRSKAYA, A.I.; FINKEL'SHTEIN, S.M.; CHISTOVSKIY, V.B.; ISHER, S.Yu.; ADAMOV, O.V., nauchn. red.; BEYZERMAN, A.N., nauchn. red.; ZHIVOV, M.S., nauchn. red.; POGORELYY, P.P., nauchn. red.; STAROVEROV, I.G., nauchn. red.; STESHENKO, A.L., nauchn. red.; TSEYTLIN, M.M., nauchn. red.; KOKHANENKO, N.A., inzh., red.; VOLNYANSKIY, A.K., glav. red.

[Assembling interior sanitary equipment] Montazh vnutrennih sanitarno-tehnicheskikh ustroistv. Moskva, Stroizdat, (MIRA 17:8) 1964. 725 p.

ZAKH, R.G.

94-58-5-12/19

AUTHOR: b3 An Editorial note on p 18 is followed by contributions to the discussion by a number of authors.

TITLE: Discussion on the Design of Medium and Low Output Industrial Power Stations (Diskussiya po voprosu proyektirovaniya promyshlennyykh elektrostantsiy sredney i maloy moshchnosti)

PERIODICAL: Promyshlennaya Energetika, 1958, Nr 6, pp 18-33 (USSR)

ABSTRACT: Editorial note p 18

The unsatisfactory position in the equipment, design and construction of small and medium industrial power stations is seriously retarding power development. In Promyshlennaya Energetika, 1956, Nr 9, M. I. Lavrov published an article for discussion on this subject. We must agree with Lavrov that the standard designs issued by Promenergoprojekt are unsatisfactory and new types of industrial Heat and Electric power stations are required. Small, costly, inefficient power stations are displacing small and medium heat and electric power stations simply because these latter are too big and complicated. Small and medium power stations should be cheap and simple and their design should be thoroughly reviewed. Industrial

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Discussion on the Design of Medium and Low-Output Industrial Power Stations

gas turbines should be introduced. In the discussion published below there are no contributions from Works making power equipment and they and staff of Councils of National Economy are asked to join in.

Professor Golubtsov, V. A. (Corresponding Member, Academy of Science USSR), pp 18-20
Work on the development of cheap and simple industrial power stations is lagging. In 1952, at MONITOE M.I.Lavrov made a number of suggestions about drawing up new types of medium and small industrial power stations, and in 1956 he published an article on the subject in Promyshlennaya Energetika, Nr 9, based on his earlier report. In the intervening five years a number of his ideas had been confirmed but they had never been adequately discussed. Concerning Lavrov's article, it is a good idea to have individual feed arrangements for each set; it is inadvisable to have more than one steam reduction and cooling installation because of the equipment and piping required. Lavrov's comments on the poor characteristics of feed pumps are correct. Small instruments are required

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so that control panels can be made cheaply. The proposal to reduce the size of deaerator tanks requires further consideration. The use of semi-outdoor construction is progressive. The question of local mechanisation and avoidance of the use of bridge cranes is important, neither is a crane needed in the boiler house. It is correct to lighten the turbine foundations and the building structure. Some underground communications must, however, be retained. Not all the author's suggestions are fully worked out or acceptable, the main thing is that he has come up with new and critical ideas.

Zakh. R. G., Candidate of Technical Science (All-Union Engineering Correspondence Institute) pp20-21. It is very necessary to revise the construction of power stations of 8 to 12 MW and Lavrov's proposals are generally acceptable. In smaller power stations use should be made of steam at 130 - 140 atmos, 535-565°C using pearlitic class steel. Detail proposals are made for simplification of the thermal circuit of the power station. Boiler houses

Card 3/11 can be simplified when burning pulverised fuel.

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Standardisation of boiler sets is discussed. Air heaters should be made smaller. Forced circulation boilers of Lamont type should be introduced because they are smaller. Construction should be speeded up using prefabricated standardised concrete parts. Unit type sets made within the limitations of the railway loading gauge can help to make construction cheaper.

Khaldeyev, P. I., Engineer (Giprosakhar)

It is important to cheapen and simplify small power stations because of the large number of heat and electric power stations that it is proposed to build. Lavrov's cost curve should not rise so steeply for small sets, because small sets are simple and of low capital cost. A revised cost curve for small heat and electric power stations is given in Fig.1. Capital costs of types 1 and 2 heat and electric power stations are tabulated and the reduced costs that result from fuel and ash handling and water supply in type 1 stations is evident, capital savings are up to 22%. Question of fuel and ash handling and water treatment are then discussed in detail. Ammonia-sodium cation treatment is recommended as being simpler

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for sugar works than H-Na cation treatment, this ammonia process should be widely used in other branches of industry. Effective measures must be taken to keep ammonia out of the steam. The use of back pressure turbines is recommended. The use of pre-assembled distribution equipment for 6 kV makes it possible to simplify the main distribution equipment. Layout of electrical control and distribution gear is discussed. Fuel handling problems are then considered. The arrangement of power stations of 6 - 8.5 MW shown in Fig. 2 is in accordance with the principles explained, of the two arrangements given the first is to be preferred. Most of Lavrov's suggestions for making stations cheaper and simpler are agreed with. Medium power stations should combine the practice of large and of small stations, but hitherto they have been based only on that of large stations. Some of Lavrov's ideas are debatable. Unit arrangement of feed means having more feed pumps and deaerators. Whilst unit working of turbines and boilers is desirable the necessary uniformity of loading cannot

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always be achieved in industrial stations. If feed lines are not linked full use cannot be made of deaerator capacity of lightly loaded sets. Central control of the thermal and mechanical part of the station is very desirable, but cannot be achieved in most small stations with chain grate stokers with fuel of variable quality because complex automation is not possible. A number of requirements for the near future are listed: load factors should be improved by combining different types of loading; fuel should be delivered in loads equal to about half the storage capacity; equipment suitable for outdoor operation should be supplied; other improvements are listed.

Tager, S. A., Candidate of Technical Science (Power Institute, Ac. Sc. USSR) pp 25-27.

Small and medium power stations have, in recent years, been built on the model of large regional power stations, which is a mistake. Much work is required to make industrial power stations cheaper and simpler. The physical arrangement of deaerators and water treatment

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plant is discussed. The idea of unit construction of boiler, turbine, deaerator, feed pump, reduction and cooling plant is hardly suitable for small and medium stations, partly because the various components must be convenient and reliable. It is often quite impossible to give each set its own reduction and cooling installation. Boiler house layout is discussed, the arrangement without basement is preferred. The climatic conditions of the USSR do not favour open air boiler houses as a general solution. Plant sizes can be cut down and boiler costs reduced. For burning small fuel, furnaces with liquid slag removal offer promise, particularly cyclone furnaces and other types recently rig tested at the Power Institute, Ac.Sc., USSR. Modern mechanised chain grate furnaces must be used. Their advantages are described. The main reason why they have not been used more extensively is that existing Soviet designs are out of date. Chain grates can be used to burn coal with high fines content, and they have been used with success for many years at the Chelyabinsk Regional Electric Power

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Station, burning local brown coal. The new method of burning hot fine fuel, developed by the Power Institute, Ac.Sc. USSR makes possible complete combustion of material carried over and trapped in gasways and ash arresters. A further factor hindering the introduction of chain grate stokers is the disorganisation of fuel supply which leads to wide variations in fuel quality at any particular power station, so that the plant has to be about universal - greater uniformity of fuel quality is required. Meanwhile the fuel balance is changing, and fuel oil and natural gas are particularly suitable fuels for small power stations. In view of this changing situation small power stations should be designed to run on natural gas and oil fuel and gas turbine and diesel stations should be designed. Because of its scattered nature there is no research or design institute for industrial power supply and there should be.

Kachinskiy, R. K. (Engineer) (Ukrzgiprosvakhar), p 28
The unit system of operation is supported on grounds of reliability and economy. Pressures of 60-80 atms should

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be used for power stations of 8 - 12 MW. Unit feed lines are desirable, but there should be automatic connection of spare feed pumps. Fuel handling equipment can be simplified. The standards of the Boiler Inspectorate should be simplified.

Kuritsyn, F. F. pp 28-29
It is most important to estimate industrial loads correctly or the station will be underloaded, alternative forms of power and heat supply should be fully considered. Existing constructional standards are in urgent need of revision and are retarding the work of design organisations. Not enough attention is paid to the demands of the final customer. In Light Industry during the 5th Five Year Plan not a single project put up by TEP and Promenergoprojekt for power stations passed without important changes of output or construction and in some cases they were rejected outright. A number of industrial power stations started up in the last few years are only running on half load.

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Lavrov, M. I. (Promenergoprojekt), pp 29-33
The original author then sums up the discussion at some length. An industrial power station may take 1-2 years to design and 2-5 years to construct, which is too long. Therefore, all sorts of locomotives, diceels and power trains are installed and they are very inefficient and expensive. This is also the reason for the rapid increase in small and inefficient boiler houses. Examples of this are given. Most of the proposals contained in the original article receive general support. Objections are raised against the use of unit construction because of the difficulty of regulating the loads on the units, or because more feed pumps are needed. However, load distribution and regulation really only needs special consideration when loads are unusually variable. Careful comparisons have shown that in fact unit schemes do economise on materials and equipment. The main difficulty with unit schemes is to cover the heat load and the use of special boilers for this purpose is recommended; such boilers are in fact being widely installed. Many of the

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suggestions made in the article have proved themselves in practice but are still not being widely adopted. The various recommendations are then repeated and reinforced. Objections against semi-outdoor boiler houses are met with the reply that the Ministry of Electric Power Stations has recommended their use for large stations in a number of climatic regions and has recommended outdoor installation of induced draught fans and ash arresters in all regions. All that then remains of the boiler house is the bunkers and ash handling equipment. When power stations are reconstructed it is often not possible to use the old boiler houses. Progress that is being made in the use of higher steam conditions is described, but it is not yet fast enough. In the discussion objections were raised to the proposal to avoid underground services, and in reply accounts are given of practical experience with the recommended construction. A number of further recommendations are then summarised under the following headings: fuel and boiler room; machine room; Heat and Electric Power Stations as a whole; construction; and auxiliary shops. There are 2 figures and 2 tables.

1. Industrial plants-USSR 2. Power plants-Operation 3. Power plants-Design 4. Power plants-Economic aspects 5. Power plants-Standardization

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BAKHACHEVSKIY, B.I.; ZAKH, R.G.; SHCHUKIN, A.A.

[General heat engineering; instructions on methods and test assignments for students of other than heat engineering professions of technical correspondence schools of higher learning] Obshchaya teplotekhnika; metodicheskie ukazaniia i kontrol'nye zadaniia dlia studentov neteplotekhnicheskikh spetsial'nostei zaочnykh uchebnykh tekhnicheskikh uchebnykh zavedenii. Izd.5. Moskva, Vysshiaia shkola, 1961. 117 p. (MIRA 17:9)

ZAGOR'YE, A.M.; ZAKH, R.G.

Burning of natural lignin with increased initial moisture. Gidroliz.
I lesokhim. prom. 18 no. 6:6-10 '65. (MIRA 18:9)

BAKHACHEVSKIY, Boris Ivanovich; ZAKHAROV, Julian Gustavovich; LYZO, Georgiy Pavlovich; SUSHKIN, Igor' Nikolayevich; SHCHUKIN, Aleksey Aleksandrovich; OSITOVA, T.V., red.izd-vu; DOBUZHINSKAYA, L.V., tekhn. red.

[Heat engineering; course in general heat engineering]
Teplotekhnika; kurs obshchei teplotekhniki. [By] B.I.Bakhachevskii i dr. Moskva, Metallurgizdat, 1963. 605 p.
(MIRA 17:2)

SOV/58-59-5-10631

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 5, p 111 (USSR)

AUTHOR: Zakhalev

TITLE: On the Role of Mechanical Effects in Crystallization Processes in
Supersaturated Solutions and Supercooled Liquids

PERIODICAL: Nauk, zap. Melitopol'sk. derzh. ped. in-t, 1957, Vol. 4, pp 237-244
(Ukr.; Russ. résumé) ✓

ABSTRACT: The author summarizes available data on the role of mechanical effects
in crystallization processes in supersaturated solutions and super-
cooled liquids. He demonstrates the possibility of using mechanical
effects to obtain crystals of various sizes. The bibliography contains
13 titles.

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ZAKHALEV, I.A.

AID P - 1899

Subject : USSR/Engineering

Card 1/2 Pub. 29 - 4/25

Authors : Govorov, V. A., Eng., Lisenkov, A. A., Kand. of
Tech. Sci., and Zakhalev, I. A., Kand. Phys.-Math.Sci.

Title : Burning of unassorted anthracite on chain-grate stoker
without fall-throughs

Periodical : Energetik, 2, 12-13, F 1955

Abstract : The authors made observation tests of anthracite
burning in the TS-30 boiler (30 t/h., 22 atm and
375°C built by the Taganrog Plant). The boiler
furnace, equipped with chain-grate stoker without
fall-throughs and designed for burning assorted hard
coal, did not generate the expected amount of steam
when unassorted anthracite was used. The authors
describe results of their observation supplementing
it with a chart of the boiler's performance, and
suggest certain means for improvement. Two
diagrams.

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CIA-RDP86-00513R001963510011-4

ZAKHALEV, Ye.D., tekhnik; GLOVSHEVITSKIY, M.Ye., inzh.

Prevention of the overheating of SD-09 asynchronous motors.
(MIREA 13:12)
Energetik 8 no. 12:18 D '60.
(Electric motors, Induction)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510011-4"

PAUSCH, Peter L.; KHOKHLOV, A.S., kandidat khimicheskikh nauk [translator];
SHEMYAKIN, M.M., redaktor; ZAHLUYEVSKII, V.A., redaktor;
GIRASIMOVA, Ye.S., tekhnicheskiy redaktor

[Chemistry of tropones and tropolones. Translated from the English]
Khimia troponov i tropolonov. Perevod s angliiskogo A.S.Khokhlova.
Pod red. M.M.Shemiakina. Moskva, Izd-vo inostrannoi lit-ry, 1956.
(MLRA 9:7)

204 P.

1. Chlen-korrespondent AM SSSR (for Shemyakin)
(Tropones) (Tropolones)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510011-4

ZAKHARIEVA, N. N. i DINYASIM, ". B.

25531

Izuchenije Ustoychivosti Tonkikh Plenok Smazochnykh Veshestv, Kamesernykh na Tverdye
Ponarkhnosti. Kolloidnyy Zhurnal, 1949, VYP. 4, s. 230 - 31

SG: IMPORTS No. 34

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510011-4"

ZAKHANOV, S.S.

Experience with the use of polychloropinene for control of
flies in Saratov. Med. paraz. i paraz. bol. 33 no.1:97-99
(MIHA 18:1)
Ju-F '64

L. Iz Saratovskoy oblastnoy sanitarno-epidemiologicheskoy
stantsii (glavnyy vrach M.I.Butova).

ZAKHAR
SLOVAKIA/Soil Science. Processing. Melioration. Erosion. I-5

Abs Jour: Referat.Zh.Biol., No. 16, 25 Aug, 1957, 69064.

Author : Zakhar

Inst :

Title : Causes of Water Erosion in the District of Pogarel Village at the Lower Forest Edge.

Orig Pub: Lesn. casop., 1956, 2, No. 2, 124-161.

Abstract: On the southern slopes of lower Tatri in the didtrict of Pogarel village the forests were destroyed for the last 120 years over an area of 1130 hectares, which caused an almost total wash-out of the upper humus soil. The process of erosion was aided by the irrational system of pasture utilization. On slopes of 15-20° in many sections there are gullies as high as 4000 m³ capacity. In the upper layer of ploughed soils an especially intense wash-out of small soil particles is noted. The following measures of struggle against soil erosion are recommended: forestation of

Card 1/2

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Abs Jour: Referat.Zh.Biol., No. 16, 25 Aug, 1957, 69064.

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KLIMOVA, G.D., red. Izd-va; MUSHALINA, Z.S., tekhn.red.

[Construction specifications and regulations] Stroitel'-nye normy i pravila. Moskva, Gosstroyizdat. Pt.3. Sec.G. ch.10.1. [Hoisting and transport equipment; regulations for manufacture and acceptance of assembly work] Podzemno-transportnoe oborudovanie; pravila proizvodstva i priemki montazhnykh rabot (SNiP III-G. 10.1-62) 1963. 30 p.
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<p>Page 2 Book Information</p> <p>Strength and Stress. Institute mathematics.</p> <p>Properties of materials. I Laboratory. Problems of strength of materials and structures. Moscow, 1979. 599 p. Errata slip inserted.</p> <p>3,000 copies printed.</p> <p>Author: B. M. Sushkov, Professor, Doctor of Technical Sciences;</p> <p>Ed.: G. V. Gorshkov; Transl.: G. T. Malts.</p> <p>Ed. or Publishing House: G. P. Gostinyi; Sov. Ed. 1979.</p> <p>Promotion: This book is intended for engineers and scientists concentrated who the problems of the strength of materials and construction.</p> <p>CONTENTS: The book contains 50 articles on the strength of materials in general and of machine construction in particular. This collection was prepared under the direction of the Institute of Mechanical Engineering of the All Union Institute of Soviet Plantmenchik Service, one of the founders and directors of the All Union Institute of Strength of Materials, who recently remained 50 years of scientific activity. The preface gives a short sketch of his 20th and professional activities. The collection is divided into two parts. The first part contains 13 articles on general problems of strength and the second on machine construction materials. The second part contains 25 articles on dynamics and calculation of strength and rigidity. There are references at the end of each article.</p> <p>References: A. V. and G. I. Shul'pin, Strength of Concentrating structures 36</p> <p>References: B. M. Sushkov, Problems of the Strength of Brittle Materials Produced by the Methods of Powder Metallurgy 52</p> <p>References: E. F. and Ya. B. Fritsch, Delayed Decomposition of Materials and its Effects on the Service of Elastic Energy 63</p> <p>References: O. Yu. and S. I. Dement'ev, Effect of Welding Defects on the Mechanical Properties of Metals 68</p> <p>References: L. M. Dependence of Endurance and Durability on the Characteristics of Static Strength 72</p> <p>References: G. D. Fatigue Resistance of Cast Iron During Annealing 112</p> <p>References: J. Fatigue and Creep-Creep Strains of Alloys for Casting Under High-Temperature Action of Static and Variable Stresses 122</p> <p>References: Dr. N. and Ya. N. Soproni, Mechanical Properties of Materials Under High-Pressure Conditions of Static-Squeeze Action of Static and Variable Stresses 128</p> <p>References: I. V. and I. N. Razumov, Solidifying Residual Stresses During Metal Cooling or Surface Treated Parts 138</p> <p>References: L. A. and V. A. Savchenko, Communication on a Computer Program 166 (2)</p>

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✓ Source of information of liquid medicines in MAIN -

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"Electric Railroad Rolling Stock"(textbook,
3 Vols)

Moscow Electromechanical
Institute of Railroad
Engineers imeni
F. E. Dzerzhinskij

ZAKHAROVENKO, D. D.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

Name	Title of Work	Nominated by
Zakharchenko, D. D.	"Rolling Stock of Electric Railroads" (textbook, 3 vol)	Moscow Electromechanical Institute of Railroad Engineers imeni F. E. Dzerzhinskiy

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ZAKHARCHENKO, D. D.

Zakharchenko, D. D. "Investigation of the characteristics of electric locomotives and of the principles for selection of rational parameters for traction motors." Kii Rillways USSR. Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad Transport Engineers imeni I. V. Stalin. Moscow, 1956. (Dissertations for the Degree of Candidate in Technical Science)

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Nr 1, p. 153 (USSR)

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TITLE: Study of Performance of Electric Locomotives and the
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ABSTRACT: Bibliographical entry on the author's dissertation for
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ASSOCIATION: Moscow Institute of Railroad Engineering (Mosk. in-t inzh.
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(Continued on next card)

ZAKHARCHENKO, D.D.----(continued) Card 2.

[Technical manual for railroad workers] Tekhnicheskii spravochnik zhelezodorozhnika. Red. kollegia R.G. Granovskii i dr. Moskva, Gos. transp. zhel-dor. izd-vo. Vol. 9.[Electric railroad rolling stock] Elektropodvizhnoi sostav zheleznykh dorog. Otv. red. toma A.I. Tishchenko. 1957. 652 p. (MLRA 10:4)

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(Electric railroads--Rolling stock)

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Ways of improving the use of power of electric machinery on
electric rolling stock and diesel locomotives. Bl.ek. i tepl.
tiaga no.6:16-17 Je '57. (MLRA 10:8)
(Electric railroads)

ZAKHARCHENKO, D.D., kand.tekhn.nauk.dotsent

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(Electric locomotives)